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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,961	05/16/2005	Masahiko Kadokura	10873.1601USWO	1695
53148 7590 10/02/2008 HAMRE, SCHUMANN, MUELLER & LARSON P.C. P.O. BOX 2902-0902			EXAMINER	
			CATTUNGAL, SANJAY	
MINNEAPOLIS, MN 55402		ART UNIT	PAPER NUMBER	
			3768	
			MAIL DATE	DELIVERY MODE
			10/02/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/534,961	KADOKURA, MASAHIKO				
Office Action Summary	Examiner	Art Unit				
	SANJAY CATTUNGAL	3768				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>09 Ju</u>	ne 2008.					
, <u> </u>						
3) Since this application is in condition for allowan		osecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
Application Papers						
	r					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on 16 May 2005 is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
•	a)☑ All b)☐ Some * c)☐ None of: 1.☐ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmont/c\						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) U Other:						

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 06/09/08 have been fully considered but they are not persuasive. Applicant argues that the Blumenthal reference does not teach a swing mechanism for the transducer in the insertion portion. Examiner would like to point that Blumenthal reference (Fig. 1 element 16, 17, and 18) teaches a swing mechanism for the transducer in the inserting portion and a motor in the grip portion as stated in the claims. Hence all the claim limitations has been met and the rejection is maintained and is made final.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 2, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,048,529 to Blumenthal.
- 4. Regarding Claims 1 and 6, Bluementhal teaches an ultrasonic probe, comprising an inserting portion to be inserted into a body cavity (Col. 1 lines 40-65); and a grip portion held by an operator outside of the body cavity, wherein the inserting portion includes a transducer unit for transmitting and receiving an ultrasonic wave, a rotation axis provided in the transducer unit, and a swing mechanism for swinging the transducer unit around the rotation axis as a center axis, and the grip portion includes a

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motor for driving the swing mechanism, the swing mechanism includes a shaft connected to the motor, a first pulley provided at an end portion of the shaft different from an end potion connected to the motor, a second pulley coaxially provided at the rotation axis, and a wire connecting the first pulley and the second pulley, and rotational movement of the motor is transmitted to the transducer unit via the shaft, the first pulley, the wire, and the second pulley. (Abstract, Fig. 1-4, and Col. 1 lines 40-65)

5. Regarding claim 2, Bluementhal teaches that the first pulley and the second pulley have the same diameter. (Fig. 1)

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 7. Claims 3-5 rejected under 35 U.S.C. 103(a) as being unpatentable over Blumenthal in view of U.S. Patent No. 4,895,158 to Kawabuchi et al.
- 8. Regarding Claims 3-5, Bluementhal teaches all of the above claimed limitations but does not expressly teach that the wire is moved in a direction orthogonal to the rotation axis.
- 9. Kawabuchi discloses in his ultrasonic probe that the wire is moved in a direction orthogonal to the rotation axis.(Claim 1)
- 10. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Bluementhal with a setup such that the wire is moved in a direction

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orthogonal to the rotation axis as taught by Kawabuchi, since such a setup would result in the probe being more flexible as it could be rotated in more directions and would have better control too since its done by motor/pulley system.

Conclusion

- 11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 12. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.
- 13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SANJAY CATTUNGAL whose telephone number is (571)272-1306. The examiner can normally be reached on 9:30 5:00 pm.
- 14. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on (571)272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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15. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BRIAN CASLER/ Supervisory Patent Examiner, Art Unit 3737

SPC